

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING **ERROR REPORT**

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Application Serial Number: 10/781,059
Source: IFWO
Date Processed by STIC: 06/16/2006

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FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

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<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

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Revised 01/10/06



IFWO

RAW SEQUENCE LISTING

DATE: 06/16/2006

PATENT APPLICATION: US/10/781,059

TIME: 12:31:59

Input Set : E:\7326-132.TXT

Output Set: N:\CRF4\06162006\J781059.raw

4 <110> APPLICANT: Spyridon Artavanis-Tsakonas
 5 Huilin Qi
 6 Matthew Rand
 8 <120> TITLE OF INVENTION: ACTIVATED FORMS OF NOTCH AND METHODS
 9 BASED THEREON
 11 <130> FILE REFERENCE: 7326-132-999
 13 <140> CURRENT APPLICATION NUMBER: 10/781,059
 14 <141> CURRENT FILING DATE: 2004-02-17
 16 <150> PRIOR APPLICATION NUMBER: 09/121,457
 17 <151> PRIOR FILING DATE: 1998-07-23
 19 <150> PRIOR APPLICATION NUMBER: 08/899,232
 20 <151> PRIOR FILING DATE: 1997-07-23
 22 <160> NUMBER OF SEQ ID NOS: 4
 24 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 26 <210> SEQ ID NO: 1
 27 <211> LENGTH: 2471
 28 <212> TYPE: PRT
 29 <213> ORGANISM: Homo sapiens
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 37 35 40 45
 38 Gly Tyr Cys Lys Cys Pro Glu Gly Phe Leu Gly Glu Tyr Cys Gln His
 39 50 55 60
 40 Arg Asp Pro Cys Glu Lys Asn Arg Cys Gln Asn Gly Gly Thr Cys Val
 41 65 70 75 80
 42 Ala Gln Ala Met Leu Gly Lys Ala Thr Cys Arg Cys Ala Ser Gly Phe
 43 85 90 95
 44 Thr Gly Glu Asp Cys Gln Tyr Ser Thr Ser His Pro Cys Phe Val Ser
 45 100 105 110
 46 Arg Pro Cys Leu Asn Gly Gly Thr Cys His Met Leu Ser Arg Asp Thr
 47 115 120 125
 48 Tyr Glu Cys Thr Cys Gln Val Gly Phe Thr Gly Lys Glu Cys Gln Trp
 49 130 135 140
 50 Thr Asp Ala Cys Leu Ser His Pro Cys Ala Asn Gly Ser Thr Cys Thr
 51 145 150 155 160
 52 Thr Val Ala Asn Gln Phe Ser Cys Lys Cys Leu Thr Gly Phe Thr Gly
 53 165 170 175
 54 Gln Lys Cys Glu Thr Asp Val Asn Glu Cys Asp Ile Pro Gly His Cys
 55 180 185 190

Does Not Comply
 Corrected Diskette Needed
 (pg-6, 8, 10)

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Input Set : E:\7326-132.TXT

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63      245      250      255
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65      260      265      270
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93      485      490      495
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95      500      505      510
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99      530      535      540
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101 545      550      555      560
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109          610          615          620
110 Leu Val Asn Gly Tyr Gln Cys Asn Cys Gln Pro Gly Thr Ser Gly Val
111 625          630          635          640
112 Asn Cys Glu Ile Asn Phe Asp Asp Cys Ala Ser Asn Pro Cys Ile His
113          645          650          655
114 Gly Ile Cys Met Asp Gly Ile Asn Arg Tyr Ser Cys Val Cys Ser Pro
115          660          665          670
116 Gly Phe Thr Gly Gln Arg Cys Asn Ile Asp Ile Asp Glu Cys Ala Ser
117          675          680          685
118 Asn Pro Cys Arg Lys Gly Ala Thr Cys Ile Asn Gly Val Asn Gly Phe
119          690          695          700
120 Arg Cys Ile Cys Pro Glu Gly Pro His His Pro Ser Cys Tyr Ser Gln
121 705          710          715          720
122 Val Asn Glu Cys Leu Ser Asn Pro Cys Ile His Gly Asn Cys Thr Gly
123          725          730          735
124 Gly Leu Ser Gly Tyr Lys Cys Leu Cys Asp Ala Gly Trp Val Gly Ile
125          740          745          750
126 Asn Cys Glu Val Asp Lys Asn Glu Cys Leu Ser Asn Pro Cys Gln Asn
127          755          760          765
128 Gly Gly Thr Cys Asp Asn Leu Val Asn Gly Tyr Arg Cys Thr Cys Lys
129          770          775          780
130 Lys Gly Phe Lys Gly Tyr Asn Cys Gln Val Asn Ile Asp Glu Cys Ala
131 785          790          795          800
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133          805          810          815
134 Tyr Thr Cys His Cys Val Leu Pro Tyr Thr Gly Lys Asn Cys Gln Thr
135          820          825          830
136 Val Leu Ala Pro Cys Ser Pro Asn Pro Cys Glu Asn Ala Ala Val Cys
137          835          840          845
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139          850          855          860
140 Trp Gln Gly Gln Arg Cys Thr Ile Asp Ile Asp Glu Cys Ile Ser Lys
141 865          870          875          880
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143          885          890          895
144 Cys Glu Cys Pro Pro Gly Phe Ser Gly Met Asp Cys Glu Glu Asp Ile
145          900          905          910
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149          930          935          940
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151 945          950          955          960
152 Gly Gly Thr Cys Ser Asp Tyr Val Asn Ser Tyr Thr Cys Lys Cys Gln
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TIME: 12:31:59

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158 Phe Ser Cys Leu Cys Pro Val Gly Phe Thr Gly Ser Phe Cys Leu His
159      1010          1015          1020
160 Glu Ile Asn Glu Cys Ser Ser His Pro Cys Leu Asn Glu Gly Thr Cys
161 1025          1030          1035          1040
162 Val Asp Gly Leu Gly Thr Tyr Arg Cys Ser Cys Pro Leu Gly Tyr Thr
163          1045          1050          1055
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165          1060          1065          1070
166 Lys Asn Lys Gly Thr Cys Val Gln Lys Lys Ala Glu Ser Gln Cys Leu
167          1075          1080          1085
168 Cys Pro Ser Gly Trp Ala Gly Ala Tyr Cys Asp Val Pro Asn Val Ser
169      1090          1095          1100
170 Cys Asp Ile Ala Ala Ser Arg Arg Gly Val Leu Val Glu His Leu Cys
171 1105          1110          1115          1120
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173          1125          1130          1135
174 Cys Pro Leu Gly Tyr Thr Gly Ser Tyr Cys Glu Glu Gln Leu Asp Glu
175          1140          1145          1150
176 Cys Ala Ser Asn Pro Cys Gln His Gly Ala Thr Cys Ser Asp Phe Ile
177          1155          1160          1165
178 Gly Gly Tyr Arg Cys Glu Cys Val Pro Gly Tyr Gln Gly Val Asn Cys
179      1170          1175          1180
180 Glu Tyr Glu Val Asp Glu Cys Gln Asn Gln Pro Cys Gln Asn Gly Gly
181 1185          1190          1195          1200
182 Thr Cys Ile Asp Leu Val Asn His Phe Lys Cys Ser Cys Pro Pro Gly
183          1205          1210          1215
184 Thr Arg Gly Leu Leu Cys Glu Glu Asn Ile Asp Asp Cys Ala Arg Gly
185          1220          1225          1230
186 Pro His Cys Leu Asn Gly Gly Gln Cys Met Asp Arg Ile Gly Gly Tyr
187      1235          1240          1245
188 Ser Cys Arg Cys Leu Pro Gly Phe Ala Gly Glu Arg Cys Glu Gly Asp
189      1250          1255          1260
190 Ile Asn Glu Cys Leu Ser Asn Pro Cys Ser Ser Glu Gly Ser Leu Asp
191 1265          1270          1275          1280
192 Cys Ile Gln Leu Thr Asn Asp Tyr Leu Cys Val Cys Arg Ser Ala Phe
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197          1315          1320          1325
198 Phe Ile Cys Arg Cys Pro Pro Gly Phe Ser Gly Ala Arg Cys Gln Ser
199      1330          1335          1340
200 Ser Cys Gly Gln Val Lys Cys Arg Lys Gly Glu Gln Cys Val His Thr
201 1345          1350          1355          1360
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Input Set : E:\7326-132.TXT

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207		1395		1400		1405
208	Ser Arg Cys Glu Leu Tyr Thr Ala Pro Pro Ser Thr Pro Pro Ala Thr					
209		1410		1415		1420
210	Cys Leu Ser Gln Tyr Cys Ala Asp Lys Ala Arg Asp Gly Val Cys Asp					
211	1425		1430		1435	1440
212	Glu Ala Cys Asn Ser His Ala Cys Gln Trp Asp Gly Gly Asp Cys Ser					
213		1445		1450		1455
214	Leu Thr Met Glu Asn Pro Trp Ala Asn Cys Ser Ser Pro Leu Pro Cys					
215		1460		1465		1470
216	Trp Asp Tyr Ile Asn Asn Gln Cys Asp Glu Leu Cys Asn Thr Val Glu					
217		1475		1480		1485
218	Cys Leu Phe Asp Asn Phe Glu Cys Gln Gly Asn Ser Lys Thr Cys Lys					
219		1490		1495		1500
220	Tyr Asp Lys Tyr Cys Ala Asp His Phe Lys Asp Asn His Cys Asn Gln					
221	1505		1510		1515	1520
222	Gly Cys Asn Ser Glu Glu Cys Gly Trp Asp Gly Leu Asp Cys Ala Ala					
223		1525		1530		1535
224	Asp Gln Pro Glu Asn Leu Ala Glu Gly Thr Leu Val Ile Val Val Leu					
225		1540		1545		1550
226	Met Pro Pro Glu Gln Leu Leu Gln Asp Ala Arg Ser Phe Leu Arg Ala					
227		1555		1560		1565
228	Leu Gly Thr Leu Leu His Thr Asn Leu Arg Ile Lys Arg Asp Ser Gln					
229		1570		1575		1580
230	Gly Glu Leu Met Val Tyr Pro Tyr Tyr Gly Glu Lys Ser Ala Ala Met					
231	1585		1590		1595	1600
232	Lys Lys Gln Arg Met Thr Arg Arg Ser Leu Pro Gly Glu Gln Glu Gln					
233		1605		1610		1615
234	Glu Val Ala Gly Ser Lys Val Phe Leu Glu Ile Asp Asn Arg Gln Cys					
235		1620		1625		1630
236	Val Gln Asp Ser Asp His Cys Phe Lys Asn Thr Asp Ala Ala Ala Ala					
237		1635		1640		1645
238	Leu Leu Ala Ser His Ala Ile Gln Gly Thr Leu Ser Tyr Pro Leu Val					
239		1650		1655		1660
240	Ser Val Val Ser Glu Ser Leu Thr Pro Glu Arg Thr Gln Leu Leu Tyr					
241	1665		1670		1675	1680
242	Leu Leu Ala Val Ala Val Val Ile Ile Leu Phe Ile Ile Leu Leu Gly					
243		1685		1690		1695
244	Val Ile Met Ala Lys Arg Lys Arg Lys His Gly Ser Leu Trp Leu Pro					
245		1700		1705		1710
246	Glu Gly Phe Thr Leu Arg Arg Asp Ala Ser Asn His Lys Arg Arg Glu					
247		1715		1720		1725
248	Pro Val Gly Gln Asp Ala Val Gly Leu Lys Asn Leu Ser Val Gln Val					
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 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
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Gly	Val	Ala	Asp	Tyr	Ala	Cys	Ser	Cys	Ala	Leu	Gly	Phe	Ser	Gly	Pro	85	90	95	
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His	Glu	Cys	Ala	Cys	Leu	Pro	Gly	Phe	Thr	Gly	Gln	Asn	Cys	Glu	Glu	245	250	255	
Asn	Ile	Asp	Asp	Cys	Pro	Gly	Asn	Asn	Cys	Lys	Asn	Gly	Gly	Ala	Cys	260	265	270	
Val	Asp	Gly	Val	Asn	Thr	Tyr	Asn	Cys	Pro	Cys	Pro	Pro	Glu	Trp	Thr	275	280	285	
Gly	Gln	Tyr	Cys	Thr	Glu	Asp	Val	Asp	Glu	Cys	Gln	Leu	Met	Pro	Asn	290	295	300	
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7

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Pro	Ser	Gly	Tyr	Thr	Gly	Pro	Ala	Cys	Ser	Gln	Asp	Val	Asp	Glu	Cys	
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Leu	Gly	Ser	Phe	Glu	Cys	Gln	Cys	Leu	Gln	Gly	Tyr	Thr	Gly	Pro	Arg	
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Cys	Glu	Ile	Asp	Val	Asn	Glu	Cys	Val	Ser	Asn	Pro	Cys	Gln	Asn	Asp	
	450					455					460					
Ala	Thr	Cys	Leu	Asp	Gln	Ile	Gly	Glu	Phe	Gln	Cys	Met	Cys	Met	Pro	
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Val	Asp	Glu	Cys	Ala	Ser	Thr	Pro	Cys	Lys	Asn	Gly	Ala	Lys	Cys	Leu	
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Tyr	Leu	Cys	Phe	Cys	Leu	Lys	Gly	Thr	Thr	Gly	Pro	Asn	Cys	Glu	Ile	
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Ser	Met	Cys	Asn	Ser	Asn	Ile	Asp	Glu	Cys	Ala	Gly	Asn	Pro	Cys	His	
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	690					695					700					
Pro	Glu	Gly	Tyr	His	Asp	Pro	Thr	Cys	Leu	Ser	Glu	Val	Asn	Glu	Cys	
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Tyr	Lys	Cys	Asp	Cys	Asp	Pro	Gly	Trp	Ser	Gly	Thr	Asn	Cys	Asp	Ile	
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Lys	Asp	Met	Thr	Ser	Gly	Ile	Val	Cys	Thr	Cys	Trp	Glu	Gly	Phe	Ser	

→ P/S.
Explains
- 'xxx' location
See pg - 11
for Error
Explanation

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 1300 1305 1310
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 Leu Gly Gly Asn Pro Cys Tyr Asn Gln Gly Thr Cys Glu Pro Thr Ser
 1395 1400 1405
 Glu Ser Pro Phe Tyr Arg Cys Leu Cys Pro Ala Lys Phe Asn Gly Leu
 1410 1415 1420
 Leu Cys Phe Ile Leu Asp Tyr Ser Phe Gly Gly Gly Ala Gly Arg Asp Val
 1425 1430 1435 1440
 Ile Pro Pro Pro Leu Ile Glu Glu Ala Cys Glu Leu Pro Glu Cys Gln
 1445 1450 1455
 Glu Asp Ala Gly Asn Lys Val Cys Ser Leu Gln Cys Asn Asn His Ala
 1460 1465 1470
 Cys Gly Trp Asp Gly Gly Asp Cys Ser Leu Asn Phe Asn Asp Pro Trp
 1475 1480 1485
 Lys Asn Cys Thr Gln Ser Leu Gln Cys Trp Lys Tyr Phe Ser Asp Gly
 1490 1495 1500
 His Cys Asp Ser Gln Cys Asn Ser Ala Gly Cys Leu Phe Asp Gly Phe
 1505 1510 1515 1520
 Asp Cys Gln Arg Ala Glu Gly Gln Cys Asn Pro Leu Tyr Asp Gln Tyr
 1525 1530 1535
 Cys Lys Asp His Phe Ser Asp Gly His Cys Asp Gln Gly Cys Asn Ser
 1540 1545 1550
 Ala Glu Cys Glu Trp Asp Gly Leu Asp Cys Ala Glu His Val Pro Glu
 1555 1560 1565
 Arg Leu Ala Ala Gly Thr Leu Val Val Val Val Leu Met Pro Pro Glu
 1570 1575 1580
 Gln Leu Arg Asn Ser Ser Phe His Phe Leu Trp Glu Leu Ser Arg Val
 1585 1590 1595 1600
 Leu His Thr Asn Val Phe Lys Arg Asp Ala His Gly Gln Gln Met
 1605 1610 1615
 Ile Phe Pro Tyr Tyr Gly Arg Glu Glu Glu Leu Arg Lys His Pro Ile
 1620 1625 1630
 Lys Arg Ala Ala Glu Gly Trp Ala Ala Pro Asp Ala Leu Leu Gly Gln
 1635 1640 1645
 Val Lys Ala Ser Leu Leu Pro Gly Gly Ser Glu Gly Gly Trp Trp Trp
 1650 1655 1660
 Arg Glu Leu Asp Pro Met Asp Val Arg Gly Ser Ile Val Tyr Leu Glu
 1665 1670 1675 1680
 Ile Asp Asn Trp Gln Cys Val Gln Ala Ser Ser Gln Cys Phe Gln Ser

			1685				1690				1695
Ala	Thr	Asp	Val	Ala	Ala	Phe	Leu	Gly	Ala	Leu	Ala
			1700								1710
Leu	Asn	Ile	Pro	Tyr	Lys	Ile	Glu	Ala	Val	Gln	Ser
			1715								1725
Pro	Pro	Pro	Pro	Ala	Gln	Leu	His	Phe	Met	Tyr	Val
			1730								1740
Phe	Val	Leu	Leu	Phe	Phe	Val	Gly	Cys	Gly	Val	Leu
			1745								1755
Arg	Trp	Xaa	Gln	His	Gly	Gln	Leu	Trp	Phe	Pro	Glu
			1765								1775
Ser	Glu	Ala	Ser	Lys	Lys	Lys	Trp	Trp	Glu	Xaa	Leu
			1780								1790
Val	Gly	Leu	Lys	Pro	Leu	Lys	Asn	Ala	Ser	Asp	Gly
			1795								1805

→ Same Error ←

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/781,059

DATE: 06/16/2006
TIME: 12:32:00

Input Set : E:\7326-132.TXT
Output Set: N:\CRF4\06162006\J781059.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Error Explanation

Seq#:2; Xaa Pos. 891,1763,1787

VERIFICATION SUMMARY

DATE: 06/16/2006

PATENT APPLICATION: US/10/781,059

TIME: 12:32:00

Input Set : E:\7326-132.TXT

Output Set: N:\CRF4\06162006\J781059.raw

L:475 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:880
L:585 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:1760
L:587 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:1776